

PATENT
Application 09/843,289
Attorney Docket 2005P12928US (1120-005)

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AMENDMENTS

AMENDMENTS TO THE CLAIMS

1-24. (Cancelled)

25. (Previously Presented) A method in a computer system for distributing lists of available channels to subscriber units, each channel being assigned an IP multicast group, the method comprising:

receiving from a subscriber unit a request for a list of available channels, the request including information identifying a subscriber and being sent using HTTP protocol; and

upon receiving the request,

identifying one or more available channels that the identified subscriber is permitted to access; and

sending to the subscriber unit a response to the received request with an indication of the identified channels, the response being sent using HTTP protocol and identifying the IP multicast group assigned to each identified channel.

26. (Currently Amended) The method of claim 25 whereby when the subscriber selects to access a channel indicated in the response, the subscriber unit sends to an IP router a request to join the IP multicast group assigned to the channel selected to be accessed and whereby the IP router routes data of the selected channel to the subscriber unit, the request to join the IP multicast group being an Internet Group Management Protocol (IGMP) request.

27. (Currently Amended) The method of claim 25 wherein the identifying of one or more available channels identifies less than all ~~of the~~ available channels.

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28. (Previously Presented) The method of claim 25 wherein the response is sent via unicast to the subscriber unit.
29. (Previously Presented) The method of claim 25 wherein available channels are provided to the computer system by receiving from a plurality of content providers indications of channels that are made available by each content provider.
30. (Previously Presented) The method of claim 29 wherein an indication that a channel is made available by a content provider is sent using a session announcement protocol.
31. (Previously Presented) The method of claim 29 wherein each available channel has a channel source address that is provided by a content provider of the plurality of content providers.
32. (Previously Presented) The method of claim 31 wherein the channel source address is an IP address.
33. (Previously Presented) The method of claim 31 wherein the channel source address is an ATM channel.
34. (Previously Presented) The method of claim 31 wherein the channel source address is an ATM virtual path and transmission circuit.
35. (Currently Amended) The method of claim **Error! Reference source not found.** wherein when the subscriber selects to receive an available channel indicated in response, the subscriber unit sends a request to join the IP multicast group associated with the selected channel, the subscriber unit adapted to leave the IP multicast group via a sent Internet Group Management Protocol (IGMP) request to leave the multicast group.

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36. (Previously Presented) The method of claim Error! Reference source not found. wherein the computer system is located at a central office.
37. (Previously Presented) The method of claim 36 wherein the subscriber unit is connected to the computer system via a DSL connection.
38. (Previously Presented) The method of claim 25 wherein an available channel is a channel whose data is currently being multicasted.
39. (Currently Amended) The method of claim 25 wherein the subscriber is identified using a media access control address, the media access control address obtained from an Internet Protocol address via an Address Resolution Protocol.
40. (Previously Presented) The method of claim 25 wherein the subscriber is identified using an IP address.
41. (Previously Presented) The method of claim 25 including providing a subscribed channel list for the subscriber that indicates channels which the subscriber is permitted to access.
42. (Previously Presented) The method of claim 25 wherein data for a channel is received at the computer system and forwarded to the subscriber unit.
43. (Previously Presented) The method of claim 42 wherein data received at the computer system is sent via a switched virtual circuit.
44. (Previously Presented) The method of claim 25 wherein a multicast group is identified by an IP address.
45. (Previously Presented) The method of claim 25 wherein the request is sent in response to the subscriber requesting to view the list.

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46. (Currently Amended) A method in a computer system for distributing lists of available channels to subscriber units, the method comprising:
- receiving from a subscriber unit a request for a list of available channels, the request including information identifying a subscriber and being sent using HTTP protocol; and
 - upon receiving the request,
 - identifying one or more channels that the identified subscriber is authorized to access; and
 - sending to the subscriber unit a response with an indication of the identified channels, the response being sent using HTTP protocol and identifying ~~the a~~ IP multicast group assigned to each identified channel, the response managed via IP multicast capable TCP/IP software.
47. (Previously Presented) The method of claim 46 wherein the identifying of one or more available channels identifies less than all available channels.
48. (Previously Presented) The method of claim 46 wherein the response is sent via unicast to the subscriber unit.
49. (Previously Presented) The method of claim 46 wherein available channels are provided to the computer system by receiving from a plurality of content providers indications of channels that are made available by that content provider.
50. (Previously Presented) The method of claim 46 wherein the computer system is located at a central office.
51. (Previously Presented) The method of claim 50 wherein the subscriber unit is connected to the computer system via a DSL connection.

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52. (Currently Amended) The method of claim 46 wherein the subscriber is identified using a media access control address, the media access control address translated to an Internet Protocol address via a Reverse Address Resolution Protocol.
53. (Previously Presented) The method of claim 46 wherein the subscriber is identified using an IP address.
54. (Previously Presented) The method of claim 46 including providing a subscribed channel list for the subscriber that indicates channels which the subscriber is permitted to access.
55. (Previously Presented) The method of claim 46 wherein data for a channel is received at the computer system and forwarded to the subscriber unit.
56. (Previously Presented) The method of claim 55 wherein data received at the computer system is sent via a switched virtual circuit.
57. (Previously Presented) The method of claim 46 wherein the request is sent in response to the subscriber requesting to view the list.
58. (Previously Presented) A method in a computer system for distributing lists of available channels to subscriber units, each channel being assigned an IP multicast group, the method comprising:
 receiving from a subscriber unit a request for a listing of available channels, the request being sent in response to a subscriber indicating to view the listing, the request being sent using HTTP protocol; and
 upon receiving the request,
 identifying channels that are available to be accessed; and
 via a channel server, sending to the subscriber unit a response with an indication of the identified channels, the response being sent using HTTP protocol

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and identifying the IP multicast group assigned to each identified channel, the response managed via IP multicast capable TCP/IP software.

59. (Previously Presented) The method of claim 58 whereby when the subscriber selects to access a channel indicated in the response, the subscriber unit sends to an IP router a request to join the multicast group assigned to the channel selected to be accessed and whereby the IP router routes data of the selected channel to the subscriber unit.
60. (Previously Presented) The method of claim 58 wherein the response is sent via unicast to the subscriber unit.
61. (Previously Presented) The method of claim 58 wherein available channels are provided to the computer system by receiving from a plurality of content providers indications of channels that are made available by each content provider.
62. (Previously Presented) The method of claim 61 wherein an indication that a channel is made available by a content provider is sent using a session announcement protocol.
63. (Previously Presented) The method of claim 61 wherein each available channel has a channel source address that is provided by a content provider of the plurality of content providers.
64. (Previously Presented) The method of claim 63 wherein the channel source address is an IP address.
65. (Previously Presented) The method of claim 63 wherein the channel source address is an ATM channel.
66. (Previously Presented) The method of claim 63 wherein the channel source address is an ATM virtual path and transmission circuit.

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- 67. (Previously Presented) The method of claim 58 wherein when the subscriber selects to receive an available channel indicated in a response, the subscriber unit sends a request to join the multicast group associated with the selected channel.
- 68. (Previously Presented) The method of claim 58 wherein the computer system is located at a central office.
- 69. (Previously Presented) The method of claim 58 wherein the subscriber unit is connected to the computer system via a DSL connection.
- 70. (Previously Presented) The method of claim 58 wherein an available channel is a channel whose data is currently being multicasted.
- 71. (Previously Presented) The method of claim 58 wherein data for a channel is received at the computer system and forwarded to the subscriber unit.
- 72. (Previously Presented) The method of claim 71 wherein data received at the computer system is sent via a switched virtual circuit.
- 73. (Previously Presented) The method of claim 58 wherein the multicast group is identified by an IP address.
- 74. (Previously Presented) The method of claim 58 wherein the request is sent in response to the subscriber requesting to view the listing.
- 75. (Previously Presented) A method in a computer system for distributing lists of available channels to subscriber units, each channel being assigned an IP address, the method comprising:

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receiving from a subscriber unit a request for a list of available channels, the request being sent using HTTP protocol and in response to a subscriber requesting to view the list; and

upon receiving the request,

identifying one or more channels; and

sending to the subscriber unit a response with an indication of the identified channels, the response being sent using HTTP protocol and identifying the IP multicast group assigned to each identified channel, the response managed via IP multicast capable TCP/IP software.

76. (Previously Presented) The method of claim 75 wherein the response is sent via unicast to the subscriber unit.
77. (Previously Presented) The method of claim 75 wherein available channels are provided to the computer system by receiving from a plurality of content providers indications of channels that are made available by each content provider.
78. (Previously Presented) The method of claim 75 wherein the computer system is located at a central office.
79. (Previously Presented) The method of claim 78 wherein the subscriber unit is connected to the computer system via a DSL connection.
80. (Previously Presented) The method of claim 75 wherein data for a channel is received at the computer system and forwarded to the subscriber unit.
81. (Previously Presented) A method in a computer system for distributing lists of available channels to subscriber units, data of the channels being transmitted via multicasting, the method comprising:

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receiving from a subscriber unit a request for a listing of available channels, the request including information identifying a subscriber; and

upon receiving the request,

identifying one or more channels that the identified subscriber is permitted to access; and

via a channel server, sending to the subscriber unit a response via session announcement protocol with an indication of the identified channels, the response identifying an IP multicast group assigned to each identified channel sent using HTTP protocol and identifying the IP multicast group assigned to each identified channel, the response managed via IP multicast capable TCP/IP software.

82. (Previously Presented) The method of claim 80 whereby when the subscriber selects to access a channel indicated in the response, the subscriber unit sends to an IP router a request to join a multicast group assigned to the channel selected to be accessed and whereby the IP router routes data of the selected channel to the subscriber unit.
83. (Previously Presented) The method of claim 80 wherein the response is sent via unicast to the subscriber unit.
84. (Previously Presented) The method of claim 80 wherein available channels are provided to the computer system by receiving from a plurality of content providers indications of channels that are made available by each content provider.
85. (Previously Presented) The method of claim 83 wherein an indication that a channel is made available by a content provider is sent using the session announcement protocol.
86. (Previously Presented) The method of claim 83 wherein each available channel has a channel source address that is provided by a content provider of the plurality of content providers.

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87. (Previously Presented) The method of claim 85 wherein the channel source address is an IP address.
88. (Previously Presented) The method of claim 85 wherein the channel source address is an ATM channel.
89. (Previously Presented) The method of claim 85 wherein the channel source address is an ATM virtual path and transmission circuit.
90. (Previously Presented) The method of claim 80 wherein when the subscriber selects to receive an available channel indicated in a response, the subscriber unit sends a request to join a multicast group associated with the selected channel.
91. (Previously Presented) The method of claim 80 wherein the computer system is located at a central office.
92. (Previously Presented) The method of claim 90 wherein the subscriber unit is connected to the computer system via a DSL connection.
93. (Previously Presented) The method of claim 80 wherein an available channel is a channel whose data is currently being multicasted.
94. (Previously Presented) The method of claim 80 wherein the subscriber is identified using a media access control address.
95. (Previously Presented) The method of claim 80 wherein the subscriber is identified using an IP address.
96. (Previously Presented) The method of claim 80 including providing a subscribed channel list for the subscriber that indicates channels which the subscriber is permitted to access.

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97. (Previously Presented) The method of claim 80 wherein data for a channel is received at the computer system and forwarded to the subscriber unit.
98. (Previously Presented) The method of claim 96 wherein data received at the computer system is sent via a switched virtual circuit.
99. (Previously Presented) The method of claim 80 wherein a multicast group is identified by an IP address.
100. (Previously Presented) The method of claim 80 wherein the request is sent in response to the subscriber requesting to view the listing.